

# TOSHIBA

## Satellite® A60 Series

### Feature Model(s):

#### Satellite A60-S166

Mobile P4 518/15.0"XGA/256MB/40GB/DVD-CDRW/Mdm/LAN/WinXP Pro

#### Satellite A60-S1661

Mobile P4 518/15.0"XGA/256MB/40GB/DVD-CDRW/Mdm/LAN/WinXP Home

### Part Numbers

PSA60U-01G01D

PSA60U-01G01E

## Product Highlights

### Performance

- Mobile Intel® Pentium® 4 processor 518 supporting Hyper-Threading Technology\*
- 256MB of Main Memory

### Great Features

- 40GB\*\* hard disk drive
- DVD-ROM/CDRW multi-function drive
- 15.0" TFT active-matrix display

### Get On-Line

- Integrated V.92/56K modem
- Integrated 10/100 Ethernet LAN
- Integrated Wireless LAN (802.11b/g)

## System Characteristics

### Operating System

- Microsoft® Windows® XP Pro pre-installed (A60-S166)
- Microsoft® Windows® XP Home pre-installed (A60-S1661)

### CPU/Chipset information

- Mobile Intel® Pentium® 4 processor 518 supporting Hyper-Threading Technology\*
  - 2.80GHz\*, 1MB L2 Cache, 533MHz Front Side Bus
- ATI® MOBILITY™ RADEON™ 7000 IGP

### Memory

- 256MB (1 DIMM) fixed memory slot with 1 available upgradeable slot; expandable to 1280MB
  - Data/Address Bus Width: 64bit/32bit
- Optional available expansion memory modules: 256MB/512/1028MB, SODIMM: Memory compatible with PC2100 DDR266 and PC2700 DDR333

### Mass Storage – HDD/Optical Drive

- Primary Hard Disk Drive: 40GB\*\* hard disk drive, Enhanced IDE (ATA-6) interface, 4200rpm drive rotation; 9.5mm height, 0.2lbs, Service Removable
- DVD-ROM/CDRW Multi-function Drive: 12.7mm Enhanced IDE (ATAPI) Interface, Service removable:  
**Maximum Read speed:** CD-ROM (24X), CD-R (24X), CD-RW (12X), DVD-ROM (8X), DVD-R (4X), DVD-RW (4X), DVD-RAM (2X)  
**Maximum Write speed:** CD-R (16X), CD-RW (4X)
- Compatibility: CD-R(read/write), CD-RW(read/re-write), DVD-R(read only), DVD-RW(read only), DVD-RAM(read only), CD-ROM, DVD-ROM

### Graphics/Video

- 15.0" TFT active-matrix display\*\*\*; internal LCD display supports up to 16M colors at 1024 x 768 resolution
- ATI® MOBILITY™ RADEON™ 7000 IGP graphics controller with 64MB shared video memory
- DirectX7 supported by hardware and DirectX9 supported by software
- Supported external CRT resolution/color/maximum external refresh rate (depending on CRT):  
640 x 480; 16bit/32bit colors  
800 x 600; 16bit/32bit colors/60/75/85/100Hz  
1024 x 768; 16bit/32bit colors/60/75/85/100Hz  
1280 x 1024; 16bit/32bit colors/60/75/85/100Hz  
1600 x 1200; 16bit/32bit colors/60/75/85/100Hz  
1920 x 1440; 16bit/32bit colors/60/75/85Hz  
2048 x 1536; 16bit/32bit colors/60Hz

### Input Devices

- Keyboard: Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® keys support; HotKey function; TouchPad pointing device
- CD Control function: skip to previous track, Play, Stop, skip to next track

### Expandability

- 1 Memory slot available
- 1 PC Card slot support 1 Type II PC Card

### Communications

- Integrated V.92/56K modem; Data and fax support  
*Due to FCC limitations, speeds of 53kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.*
- Integrated 10/100 Ethernet LAN
- Integrated Wireless LAN (Atheros 802.11b/g)

### Ports

- Parallel printer port
- RGB (monitor) port
- 3 Universal Serial Bus ports (USB)
- TV-Out Port (S-Video)
- RJ-45 LAN Port
- RJ-11 modem port

### Physical Description

- Dimensions (LxWxH): 13.5" x 11.1" x 2.13" (max height with feet)
- Weight: 7.7lbs\*\*\*\*

### Sound

- Realtek ALC250 (on board) Codec Chip; Software Sound
- Built-in stereo speakers; Direct 3D Sound (supported by sound driver), DirectSound (supported by hardware acceleration) and DirectMusic (supported by hardware acceleration); MIDI Support; Sound Volume (by Dial); Full Duplex Support
- Ports: External Microphone port (monaural), headphone port (stereo)

### Power Supply

- **AC Adapter:** 120W external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input voltage, 19V x 6.3A Output.
- **Dimensions (LxWxH):** 5.91" x 2.56" x 1.42"
- **Weight:** starting at 1.43lbs\*\*\*\*
- **Battery Pack:** 12-cell, rechargeable, removable Lithium Ion (Li-Ion) battery, 14.8V x 6450mAh
- **Dimensions (LxWxH):** 10.78" x 2.82" x 0.85"
- **Weight:** starting at 1.46lbs\*\*\*\*
- Battery Saver (in Windows XP): Stand by, HDD Auto Off, Display Auto Off, Hibernation
- Battery life (main battery): Please see battery life section \*\*\*\*\*
- **Recharge time (main off/on):** Approx 4/14 hrs. (off/on)  
*Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack or see information on accessories shipping with your computer, visit the Toshiba website at <http://www.accessories.toshiba.com>*

### Security

- Slot for computer lock, memory (1 screw), HDD (1 screw) and Built-in Modem/LAN (1 screw), User Power-on Password, Screen Blank (by Hotkey), Screen Saver (by software)

### Bios

- ACPI, PnP, VESA, DDC, SM BIOS, PCI BIOS support

### Additional Software

- Microsoft® Works®
- Microsoft® Office® OneNote™ 2003
- Software Decoder: InterVideo® (Win-DVD™ 4) -w/SRS TruSurround XT® Technology (SRS® TruSurround XT® Technology features: TruSurround, SRS Dialog Clarity Enhancement, & TruBass)
- Sonic® Solutions Drive Letter Access (DLA)
- Sonic® Solutions RecordNow!™ Basic
- AT&T® Worldnet® Service – 1 Month FREE
- Intuit® Quicken® New User Edition 2004
- Norton® AntiVirus™ 2004 – w/3-Month Subscription
- AOL® (3-Month offer)

*AOL OFFER DETAILS: Availability may be limited, especially during peak times. TO*

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# TOSHIBA

**AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS.** Premium services carry surcharges and communication surcharges may apply, including AOL, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.

- Adobe® Acrobat Reader
- QuickTime™ Player
- RealOne™ Player 8 Basic
- Microsoft® Internet Explorer
- Napster® music software

## TOSHIBA Software

- TOSHIBA Notebook Maximizer
- TOSHIBA Speech System
- TOSHIBA ConfigFree™ software
- TOSHIBA Custom Utilities
- TOSHIBA Touch and Launch
- TOSHIBA Zooming Utility

## Warranty

- 1 year parts, labor and battery limited warranty

## SelectServ® Warranty Programs

• Warranty Extension to 3 Years	SWP-PEQQ3V
• 3 Year SystemGuard	SWP-PEGQ3V
• 3 Year Depot Express	SWP-PEQX3V
• 3 Year Business On-Site Repair with Next Day Business Day Response	SWP-PEQN3V
• 3 Year SystemGuard + Depot Express	SWP-PEGX3V
• 3 Year SystemGuard + Business On Site Repair, Next Business Day Response	SWP-PEGN3V

## Environmental Specifications

- Temperature: 5° to 30°C (41° to 86°F)

## Selected Accessories

Category	Part Number	Description
Power	PA3290U-2ACA	Toshiba 120W Global AC Adapter
Power	PA3382U-1BRS	Toshiba Li ION Battery (12 cell)
Memory	KTT3311/256	Kingston 256MB Memory
Memory	KTT3311/512	Kingston 512MB Memory
Memory	KTT3311/1G	Kingston 1GB Memory
Misc	PA3109U-1FDD	Toshiba USB FDD Kit
Misc	PA1336U-1NKB	Toshiba USB Keyboard
Misc	PA1337U-1NMS	Toshiba USB Optical Mouse
Cases	NWCER2	Excursion Roller 16"
Cases	PA1362U-1NCS	Toshiba Back Pack
Cases	PA1360U-1NCS	Toshiba Nylon Case
Cases	PA1361U-1NCS	Toshiba Executive Leather Case
Security	NWDEFCL	Targus-Noteworthy DEFCON CL Cable Lock
Storage/Backup	HDD1232CZP41002	Toshiba 5GB Type II PC Card HDD w/Back-up software
Storage/Backup	ABSPLUS-40.0	CMS ABSplus 40GB PCMCIA Automatic Backup System
Storage/Backup	ABSPLUS-60.0	CMS ABSplus 60GB PCMCIA Automatic Backup System
Storage/Backup	UABS2-40.0	CMS ABSplus 40GB USB 2.0 Automatic Backup System
Storage/Backup	UABS2-60.0	CMS ABSplus 60GB USB 2.0 Automatic Backup System

\* Go to [www.accessories.toshiba.com](http://www.accessories.toshiba.com) for additional, available accessories

**\*Central Processing Unit ("CPU") Performance Disclaimer:** CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia games or videos with special effects
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
7. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please refer to your Resource Guide or visit the Toshiba website at [www.pcbsupport.toshiba.com](http://www.pcbsupport.toshiba.com) for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shutdown. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

**\*\*Hard Drive Capacity.** 1 Gigabyte (GB) means 1000 x 1000 x 1000 = 1,000,000,000 bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB = 1024 x 1024 x 1024 = 1,073,741,824 bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes pre-installed operating system and/or application software. Actual formatted capacity may vary.

**\*\*\*TFT Disclaimer.** Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology.

**\*\*\*\*Weight** may vary depending on product configuration, vendor components, manufacturing variability and options selected.

## Return Policy

TAIS does not accept the return of component parts, or bundled software, which have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

## Subject to Change

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at [pcbsupport.toshiba.com](http://pcbsupport.toshiba.com)

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\*\*\*\*\*Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at accessoryfinder.toshiba.com.

## Business Winstone® 2002 BatteryMark™ Version 1.0

These models achieved the battery life times shown using Ziff Davis Media Inc.'s Business Winstone® 2002 BatteryMark™ Version 1.0. These tests were performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest"). Neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to the results of the tests. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. All products used in the tests were shipping versions available to the general public. The battery life results were achieved running the Business Winstone® 2002 BatteryMark™ Version 1.0 on the following system parameters. System parameters were set according to Ziff Davis Media Inc.'s recommendations.

Battery Life	Catalog Spec (1st)	3H	2H	1.5H
			3H (Option 12 cell Battery)	
Number of Conditioning Phase	1	1	1	
Life Test Run	3	3	3	
CPU Name	Mobile Intel® Pentium® 4 processor 3.20GHz with HT Technology	Mobile Intel® Pentium® 4 processor 2.80GHz	Mobile Intel® Pentium® 4 processor 2.8GHz	Intel® Celeron® D processor 335
Processor info	speed number of processors	3.2GHz 1	2.8GHz 1	2.8GHz 1
amount of RAM	512MB	256MB	256MB	256MB
Amount of secondary RAM cache	512KB	512KB	512KB	512KB
Battery	type(1st)	Li-Ion	Li-Ion	Li-Ion
	model number(1st)	PA3382U-1BRS/BAS	PA3384U-1BRS/BAS	PA3382U-1BRS/BAS
	type(2nd)	-	-	-
	model number(2nd)	-	-	-
	number of batteries	1	1	1
Graphics	ATI MOBILITY RADEON 7000 IGP (internal GFX)	ATI MOBILITY RADEON 7000 IGP (internal GFX)	ATI MOBILITY RADEON 7000 IGP (internal GFX)	ATI MOBILITY RADEON 7000 IGP (internal GFX)
amount and type of RAM	UMA	UMA	UMA	UMA
graphics driver name and version	6.14.10.6449	6.14.10.6449	6.14.10.6449	6.14.10.6449
graphics resolution and color depth, refresh rate	1024x768, 32bit, 60Hz	1024x768, 32bit, 60Hz	1024x768, 32bit, 60Hz	1024x768, 32bit, 60Hz
hard disk capacity	60G	40G	40G	
hard disk file system & transfer mode	Enhanced IDE(ATA-5)	Enhanced IDE(ATA-5)	Enhanced IDE(ATA-5)	
hard disk controller model	ATI IXP150	ATI IXP150	ATI IXP150	
size of hardware cache if any	-	-	-	
operating system version, service pack	Windows XP Professional Service Pack 1	Windows XP Professional Service Pack 1	Windows XP Professional Service Pack 1	
other special conditions	N/A	N/A	N/A	
BIOS version	0.01.43	0.01.43	0.01.43	
Power management setting	see another sheet	see another sheet	see another sheet	

		Business Winstone 2002 BatteryMark Version 1.0 Model# L3	
Power Save Mode	Cooling Method Intel SpeedStep(R) Technology	Maximum Performance	
	Processor speed	100%-75% 74%-50% 49%-25% 24%-0%	Level 3 Level 3 Level 3 Level 3
	Monitor brightness (* See Notes)	100%-75% 74%-50% 49%-25% 24%-0%	Level 4 Level 4 Level 4 Level 4
	Turn off monitor	100%-75% 74%-50% 49%-25% 24%-0%	NEVER NEVER NEVER NEVER
	Turn off hard disks	100%-75% 74%-50% 49%-25% 24%-0%	3min 3min 3min 3min
	System standby	100%-75% 74%-50% 49%-25% 24%-0%	NEVER NEVER NEVER NEVER
	System Hibernate	100%-75% 74%-50% 49%-25% 24%-0%	NEVER NEVER NEVER NEVER
System Power Mode	When I press the power button When I close the lid Prompt for password when computer goes off Standby or Hibernation	Power off Hibernate Off	
Alarm	Activate low battery alarm when power level reaches Low Battrey Alarm Action	Off Sound alarm Display message When the alarm goes off, the computer will: When the alarm occurs, run this program:	Off Off Off Off Off
	Activate critical battery alarm when power level reaches Critical Battrey Alarm Action	Off Sound alarm Display message When the alarm goes off, the computer will: When the alarm occurs, run this program:	Off Off Off Off Off
Hibernate	Enable Hibernate Support	On	
SoundMAX Audio Power Management	Power Mode Timer Setting Internal Speakers	On - - Power Down	